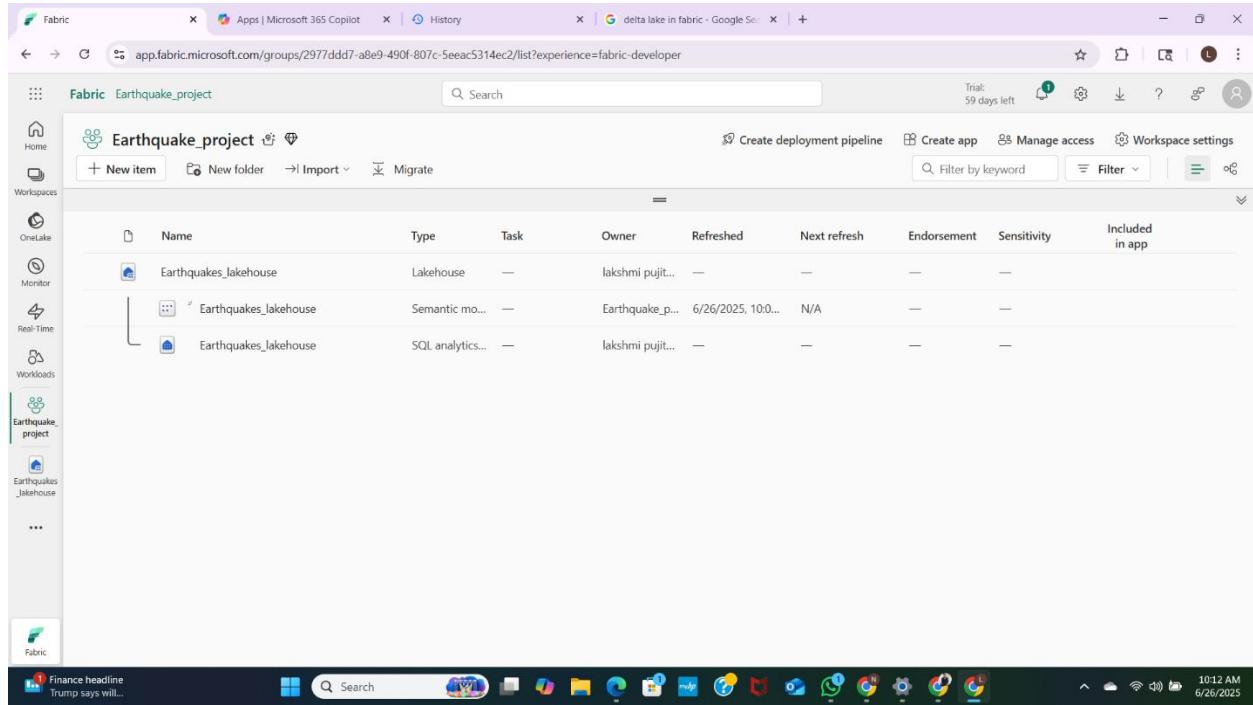


GORANTLA LAKSHMI PUJITHA

EARTHQUAKE ANALYSIS WITH MICROSOFT FABRIC



The screenshot shows the Microsoft Fabric web interface. On the left, there's a sidebar with icons for Home, Workspaces, OneLake, Monitor, Real-Time, and Workloads. Under Workspaces, 'Earthquake_project' is selected. The main area displays a table with three rows:

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Included in app
Earthquakes_lakehouse	Lakehouse	—	lakshmi pujit...	—	—	—	—	—
Earthquakes_lakehouse	Semantic mo...	—	Earthquake.p...	6/26/2025, 10:0...	N/A	—	—	—
Earthquakes_lakehouse	SQL analytics...	—	lakshmi pujit...	—	—	—	—	—

1. Creating a Fabric Workspace and Data Lakehouse:-

A **Fabric Workspace** is a collaborative environment in Microsoft Fabric where you organize, develop, and manage your end-to-end data projects.

It acts as a central container for all assets including:

- Notebooks
- Data pipelines
- Lakehouses
- Power BI reports
- Datasets

Workspaces allow team members to build, run, and share components of a project using shared compute and storage.

A **Data Lakehouse** in Microsoft Fabric combines the **scalability of a data lake** with the **structure and performance of a data warehouse**.

It allows you to store both:

- **Raw files** (like JSON, CSV, Parquet)
- **Structured tables** (Delta Lake format)

A Lakehouse simplifies data engineering workflows by enabling both data scientists and BI users to access the same data without duplication or complex movement.

Medallion Architecture (Definition)

Medallion **Architecture** is a data design pattern used in modern Lakehouse platforms (like Microsoft Fabric and Databricks) to **incrementally refine data across three layers**:

- **Bronze** (Raw)
- **Silver** (Cleaned)
- **Gold** (Business-ready / Aggregated)

Each layer serves a specific purpose and improves the quality and usability of the data as it flows through.

Natural disasters like earthquakes are unpredictable but globally tracked in real time.

Organizations — including governments, researchers, and humanitarian agencies — need to:

- **Monitor where and when earthquakes occur**
- **Understand patterns based on magnitude, depth, or location**
- **Respond quickly based on severity and population impact**

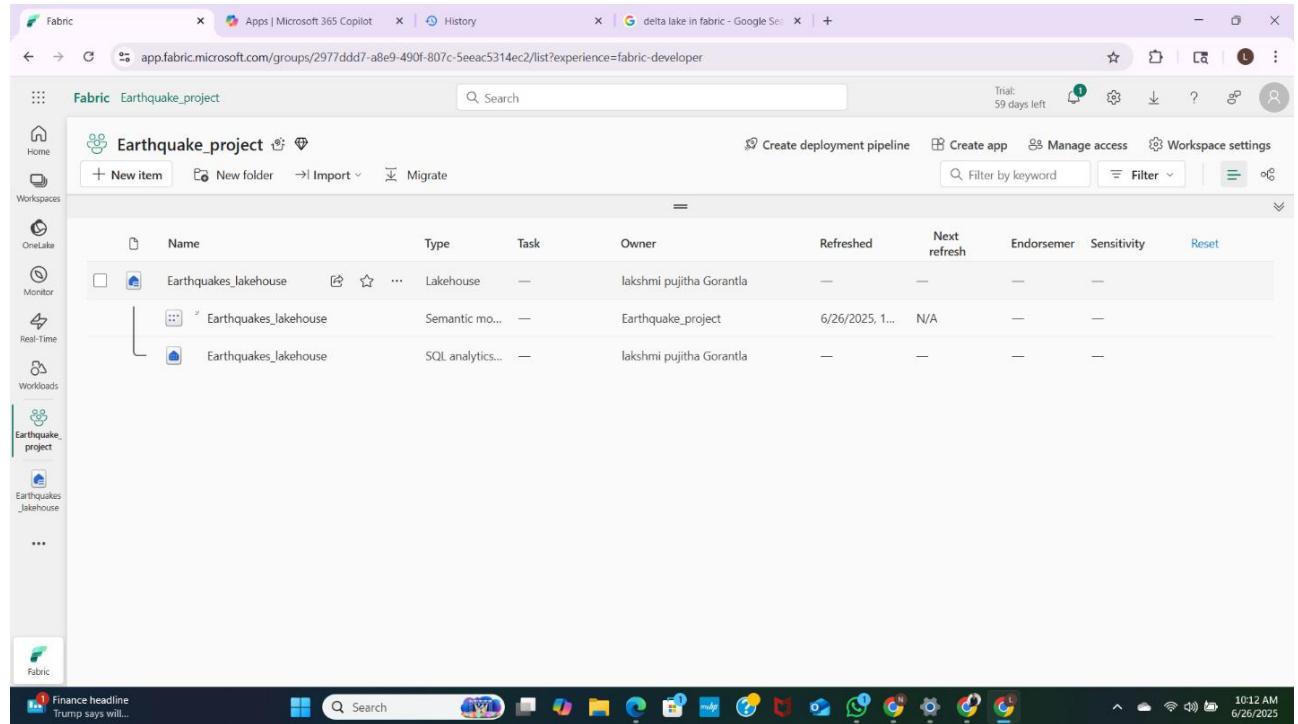
What This Project Does

This project provides a **data-driven earthquake monitoring solution** using Microsoft Fabric. It automates the process of:

1. **Ingesting real-time earthquake data** from the USGS GeoJSON feed
2. **Flattening & transforming** nested JSON into structured tabular form using PySpark
3. **Refining data** through Medallion Architecture (Bronze → Silver → Gold)

4. Analyzing patterns by location, time, magnitude, and depth

5. Visualizing insights in Power BI to support decision-making



The screenshot shows the Microsoft Fabric interface for the 'Earthquake_project' workspace. The left sidebar lists various workspace categories like Home, Workspaces, OneLake, Monitor, Real-Time, Workloads, and the current project. The main area displays a table of datasets:

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Reset
Earthquakes_lakehouse	Lakehouse	—	lakshmi pujitha Gorantla	—	—	—	—	—
Earthquakes_lakehouse	Semantic mo...	—	Earthquake_project	6/26/2025, 1...	N/A	—	—	—
Earthquakes_lakehouse	SQL analytics...	—	lakshmi pujitha Gorantla	—	—	—	—	—

Using Python Requests to Fetch API data

USGS Earthquake API

- <https://earthquake.usgs.gov/fdsnws/event/1/count?starttime=2014-01-01&endtime=2014-01-02>

WEBSITE LINK :- <https://earthquake.usgs.gov/fdsnws/ev...>

```

Temp notebook - Fabric
app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/28ef2963-ae2d-41b5-b98f-a035139150cf?experience=fabric-developer

Home Edit AI tools Run View
Standard session PySpark (Python) Environment Workspace default Data Wrangler Share Copilot

1 url="https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime=2014-01-01&endtime=2014-01-02"
2 ✓ 12 sec - Session ready in 12 sec 3 ms. Command executed in 384 ms by lakshmi pujitha Gorantla on 10:34:05 AM, 6/26/25
PySpark (Python) v

1 import requests
2 ✓ <1 sec - Command executed in 288 ms by lakshmi pujitha Gorantla on 10:35:13 AM, 6/26/25
PySpark (Python) v

1 response = requests.get(url)
2 ✓ 1 sec - Command executed in 1 sec 563 ms by lakshmi pujitha Gorantla on 10:38:03 AM, 6/26/25
PySpark (Python) v

1 response.json()
2 ✓ 1 sec - Command executed in 909 ms by lakshmi pujitha Gorantla on 10:38:32 AM, 6/26/25
PySpark (Python) v
... 'place': '1km ESE of The Geysers, CA', 'time': 1388616254500
Selected Cell 4 of 4 cells

Session ready AutoSave: On
Light rain In the afternoon
10:40 AM 6/26/2025

```



```

Temp notebook - Fabric
app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/28ef2963-ae2d-41b5-b98f-a035139150cf?experience=fabric-developer

Home Edit AI tools Run View
Standard session PySpark (Python) Environment Workspace default Data Wrangler Share Copilot

1 response.json()
2 ✓ 1 sec - Command executed in 909 ms by lakshmi pujitha Gorantla on 10:38:32 AM, 6/26/25
PySpark (Python) v
... {
  "type": "FeatureCollection",
  "metadata": {
    "generated": "1750952283000",
    "url": "https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime=2014-01-01&endtime=2014-01-02",
    "title": "USGS Earthquakes",
    "status": 200,
    "api": "1.14.1",
    "count": 325
  },
  "features": [
    {
      "type": "Feature",
      "properties": {
        "mag": 1.29,
        "place": "10km SSW of Idyllwild, CA",
        "time": 1388620296020,
        "updated": 145772884428,
        "tz": None,
        "url": "https://earthquake.usgs.gov/earthquakes/eventpage/ci11408890",
        "detail": "https://earthquake.usgs.gov/fdsnws/event/1/query?eventid=ci11408890&format=geojson",
        "felt": None,
        "cdi": None,
        "mmi": None,
        "alert": None,
        "status": "reviewed",
        "tsunami": 0,
        "sig": 26,
        "net": "ci",
        "code": "11408890",
        "ids": "ci11408890",
        "sources": "cl",
        "types": "cap,focal-mechanism,nearby-cities,origin,phase-data,scitech-link",
        "nst": 39,
        "dmin": 0.06729
      }
    }
  ]
}
Selected Cell 4 of 4 cells

Session ready AutoSave: On
Light rain In the afternoon
10:41 AM 6/26/2025

```

2. Coding the Bronze Layer Processing Notebook :-

01 Worldwide Earthquake Events API - Bronze Layer Processing | Saved

Home Edit AI tools Run View

PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer

Data items Resources

+ Add data items

Items

Earthquakes_lakehouse

Tables

Files

2025-06-19_earthquake_data...

Worldwide Earthquake Events API - Bronze Layer Processing

```

1  from datetime import date, timedelta
2
3  start_date = date.today() - timedelta(7)
4  end_date = date.today() - timedelta(1)
5  url = f"https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime={start_date}&endtime={end_date}"
6  print(url)

```

12 sec - Session ready in 11 sec 827 ms. Command executed in 350 ms by lakshmi pujitha Gorantla on 3:44:11 PM, 6/26/25 PySpark (Python) ↴

<https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime=2025-06-19&endtime=2025-06-25>

```

1  import requests
2  import json
3
4  # Construct the API URL with start and end dates provided by Data Factory, formatted for geojson or
5  url = f"https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime={start_date}&endtime={end_date}"
6

```

Selected Cell 4 of 4 cells

01 Worldwide Earthquake Events API - Bronze Layer Processing | Saved

Home Edit AI tools Run View

PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer

Data items Resources

+ Add data items

Items

Earthquakes_lakehouse

Tables

Files

2025-06-19_earthquake_data...

```

1  df = spark.read.option("multiline", "true").json("Files/2025-06-19_earthquake_data")
2  # df now is a Spark DataFrame containing JSON data from "Files/2025-06-19_earthquake_data"
3  display(df)

```

49 sec - Command executed in 3 sec 871 ms by lakshmi pujitha Gorantla on 3:46:59 PM, 6/26/25 PySpark (Python) ↴

Spark jobs (2 of 2 succeeded)

ID	Stage ID	Job ID	Driver Status	Number of Tasks	Progress (%)	Completed Tasks	Running Tasks	Waiting Tasks	Lost Tasks	Driver Log
1	1	1	Success	1	100	1	0	0	0	Driver Log
2	2	2	Success	1	100	1	0	0	0	Driver Log

Table view

Download Filter by keyword

ANY properties

ID	geometry	ABC id	ABC properties	ABC type
1	{"coordinates":...	uw62126362	["mag":1.9978...	Feature
2	{"coordinates":...	ci41003311	["mag":0.75,"url":...	Feature
3	{"coordinates":...	us7000g8kv	["mag":4.9,"url":...	Feature
4	{"coordinates":...	us7000g8kv	["mag":4.8,"url":...	Feature
5	{"coordinates":...	pr71487078	["mag":3.27,"url":...	Feature
6	{"coordinates":...	bz2025mjxf	["mag":2.3,"url":...	Feature
7	{"coordinates":...	pr71487073	["mag":1.92,"url":...	Feature
8	{"coordinates":...	ak02581sxje	["mag":1.1,"url":...	Feature
9	{"coordinates":...	ak02581sw...	["mag":1,"url":...	Feature
10	{"coordinates":...	bz2025mjxf	["mag":1.7,"url":...	Feature
11	{"coordinates":...	ci41003263	["mag":0.53,"url":...	Feature
12	{"coordinates":...	bz2025mje...	["mag":3,"url":...	Feature
13	{"coordinates":...	nn00899421	["mag":0.8,"url":...	Feature

Selected Cell 4 of 4 cells

3. Coding the Silver Layer Processing Notebook :-

02 Worldwide Earthquake Events | Apps | Microsoft 365 Copilot | History | delta lake in fabric - Google Search | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saved | Q Search Trial: 59 days left 🔍 ⚡ ? 🌐 Share

Home Edit AI tools Run View Comments History Develop Share

Workspaces OneLake Monitor Earthquake_project 02 Worldwide... 01 Worldwide... Earthquakes_lakehouse

Explorer Data items Resources + Add data items

Files

Worldwide Earthquake Events API - Silver Layer Processing

```
1 from pyspark.sql.functions import col
2 from pyspark.sql.types import TimestampType
```

PySpark (Python) ↴

```
1 from datetime import date, timedelta
2 start_date = date.today() - timedelta(7)
3 print(start_date)
```

[2] ✓ <1 sec - Command executed in 293 ms by lakshmi pujitha Gorantla on 4:05:20 PM, 6/26/25

2025-06-19

```
1 # df now is a Spark DataFrame containing JSON data
2 df = spark.read.option("multiline", "true").json("FFiles/(start_date)_earthquake_data.json")
3 display(df)
```

[3] ✓ 6 sec - Command executed in 4 sec 793 ms by lakshmi pujitha Gorantla on 4:05:34 PM, 6/26/25

PySpark (Python) ↴ Selected Cell 4 of 7 cells

Fabric Session ready AutoSave: On 91°F Windy 4:06 PM 6/26/2025

02 Worldwide Earthquake Events | Apps | Microsoft 365 Copilot | History | delta lake in fabric - Google Search | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saved | Q Search Trial: 59 days left 🔍 ⚡ ? 🌐 Share

Home Edit AI tools Run View Comments History Develop Share

Workspaces OneLake Monitor Earthquake_project 02 Worldwide... 01 Worldwide... Earthquakes_lakehouse

Explorer Data items Resources + Add data items

Files

```
1 display(df.select('geometry.coordinates'))
```

[5] ✓ 1 sec - Command executed in 1 sec 463 ms by lakshmi pujitha Gorantla on 4:08:46 PM, 6/26/25

Spark jobs (1 of 1 succeeded) Resources Log

Table view + New chart

Table view ANY coordinates Download Filter by keyword

	ANY coordinates
9	[-147.4867649...
10	[-104.2883162...
11	[-116.23666673...
12	[-104.2973163...
13	[-119.9821390...
14	[-122.7683343...
15	[-104.2863162...
16	[130.2021,-6.39...
17	[-122.74349975...
18	[166.607666666...
19	[-68.337666666...
20	[-117.47733333...
21	[-150.9411628...

ANY coordinates [-119.9821, 39.0796, 12.3]
0: "-119.9821"
1: "39.0796"
2: "12.3"

Selected Cell 5 of 8 cells

Fabric Session ready AutoSave: On 90°F Partly sunny 4:09 PM 6/26/2025

02 Worldwide Earthquake Events | Saving... | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saving... | +

Home Edit AI tools Run View

PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer Data items Resources

+ Add data items

Items

Earthquakes_lakehouse

Tables

Files

PySpark (Python)

1 from pyspark.sql.functions import col
2
3 display(df.select(col('geometry.coordinates').getItem(0)))
4

[13] < 1 sec - Command executed in 920 ms by lakshmi pujitha Gorantla on 4:17:05 PM, 6/26/25

Spark jobs (1 of 1 succeeded) Resources Log

Table view

12 geometry.coordinates[0]

1	-123.69633483886719
2	-116.7216667
3	80.3994
4	94.0011
5	-68.23433333333333
6	-104.278
7	-66.837
8	-143.7293
9	-147.4967
10	-104.288
11	-116.23666667
12	-104.297

Selected Cell 5 of 8 cells

90°F Partly sunny

02 Worldwide Earthquake Events | Saving... | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saving... | +

Home Edit AI tools Run View

PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer Data items Resources

+ Add data items

Items

Earthquakes_lakehouse

Tables

Files

PySpark (Python)

1 from pyspark.sql.functions import col
2
3 display(df.select(col('geometry.coordinates').getItem(1)))
4

[14] < 1 sec - Command executed in 919 ms by lakshmi pujitha Gorantla on 4:17:20 PM, 6/26/25

Spark jobs (1 of 1 succeeded) Resources

Table view

12 geometry.coordinates[1]

1	46.848331451416016
2	33.5311667
3	-41.4919
4	9.5621
5	18.766666666666667
6	31.639
7	17.96533333333333
8	61.7467
9	64.9847
10	31.626
11	33.2898333
12	31.63

Selected Cell 5 of 8 cells

90°F Partly sunny

02 Worldwide Earthquake Events | Saving... | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saving... | +

Home Edit AI tools Run View

PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer Data items Resources

+ Add data items

Items

Earthquakes_lakehouse

Tables Files

PySpark (Python)

1 from pyspark.sql.functions import col
2
3 display(df.select(col('geometry.coordinates').getItem(2)))
4

<1 sec - Command executed in 842 ms by lakshmi pujitha Gorantla on 4:17:29 PM, 6/26/25

Spark jobs (1 of 1 succeeded) Resources

Table view

12 geometry.coordinates[2]

	12 geometry.coordinates[2]
1	0.759999990463257
2	5.45
3	10.0
4	10.0
5	54.82
6	7.4841
7	15.99
8	58.1
9	0.0
10	7.8174
11	9.28
12	6.9202

Selected Cell 5 of 8 cells

90°F Partly sunny 4:17 PM 6/26/25

02 Worldwide Earthquake Events | Saving... | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saving... | +

Home Edit AI tools Run View

PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer Data items Resources

+ Add data items

Items

Earthquakes_lakehouse

Tables Files

PySpark (Python)

1 from pyspark.sql.functions import col
2
3 display(df.select(col('properties')))
4

1 sec - Command executed in 1 sec 683 ms by lakshmi pujitha Gorantla on 4:19:22 PM, 6/26/25

Spark jobs (1 of 1 succeeded) Resources Log

Table view

ANY properties

	ANY properties
1	{"mag":1.9978...
2	{"mag":0.75,"u...
3	{"mag":4.9,"u...
4	{"mag":4.8,"u...
5	{"mag":3.27,"u...
6	{"mag":2.3,"u...
7	{"mag":1.92,"u...
8	{"mag":1.1,"u...
9	{"mag":1.7,"u..."
10	{"mag":2.7,"u..."
11	{"mag":0.53,"u..."
12	{"mag":3.7,"u..."

Selected Cell 5 of 8 cells

90°F Partly sunny 4:19 PM 6/26/25

Screenshot of Microsoft Fabric Data Wrangler interface showing the results of a PySpark session.

The interface includes:

- Top Bar:** Shows tabs for "02 Worldwide Earthquake Events" (active), "Apps | Microsoft 365 Copilot", "History", "delta lake in fabric - Google Search", and a "+" button.
- Header:** "02 Worldwide Earthquake Events API - Silver Layer Processing" with "Saved" dropdown, search bar, and trial status ("Trial: 59 days left").
- Left Sidebar:** "Workspaces" section with items like "OneLake", "Monitor", "Earthquake_project", "02 Worldwide...", "01 Worldwide...", and "Earthquakes_lakehouse".
- Central Area:**
 - Explorer:** "Data items" selected, showing "Items" with "Earthquakes_lakehouse" expanded, containing "Tables" and "Files".
 - Table View:** Shows a table with 17 rows of earthquake properties. The first row is highlighted.
 - Properties Panel:** Displays detailed properties for the selected row, including magnitude, URL, and location information.
- Bottom Area:** Session status ("Session ready", "AutoSave: On"), system tray with weather (90°F Partly sunny), taskbar with various icons, and system status (4:19 PM, 6/26/2025).

Code Editor (PySpark):

```
from pyspark.sql.functions import col
display(df.select(col('properties.mag')))
```

Table View (PySpark):

id	mag
1	1.99789738...
2	0.75
3	4.9
4	4.8
5	3.27
6	2.3
7	1.92
8	1.1
9	1.0
10	1.7
11	0.53
12	3.0

02 Worldwide Earthquake Events | Apps | Microsoft 365 Copilot | History | delta lake in fabric - Google Search | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saved | Q Search Trial: 59 days left

Home Edit AI tools Run View PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer

- Data items Resources
- + Add data items
- Items
 - Earthquakes_lakehouse
 - Tables
 - Files

1 display(df)

[21] ✓ 1 sec - Command executed in 1 sec 548 ms by lakshmi pujitha Gorantla on 4:21:52 PM, 6/26/25

> Spark jobs (1 of 1 succeeded) Resources Log

Table view + New chart Data Wrangler 11 columns, 1000 rows Filter by keyword

	ABC id	longitude	latitude	elevation	ABC title	ABC place_description	12L sig	12 mag	ABC magType	12
1	uw62126362	-123.6963348...	46.848331...	0.7599999904...	M 2.0 - 13...	13 km SSE of Cosmo...	61	1.99789738...	ml	Inspect
2	cd1003311	-116.7216667	33.5311667	5.45	M 0.8 - 5 k...	5 km WSW of Anza, CA	9	0.75	ml	
3	us7000gkv	80.3994	-41.4919	10.0	M 4.9 - M...	Mid-Indian Ridge	369	4.9	mb	
4	us7000gkv	94.0011	9.5621	10.0	M 4.8 - 27.0...	270 km SSE of Port BL...	354	4.8	mb	
5	pr71487078	-68.2343333...	18.766666...	54.82	M 3.3 - 27 ...	27 km NE of Punta Ca...	165	3.27	md	
6	tx2025mfdq	-104.278	31.639	7.4841	M 2.3 - 58 ...	58 km NW of Toyah, T...	81	2.3	ml	
7	pr71487073	-66.837	17.9653333...	15.99	M 1.9 - 3 k...	3 km SSW of Indios, P...	57	1.92	md	
8	ak02581xkjg	-143.7293	61.7467	58.1	M 1.1 - 45 ...	45 km NE of Chitina, A...	19	1.1	ml	
9	ak02581sw...	-147.4867	64.9847	0.0	M 1.0 - 6 k...	6 km ENE of Fox, Alaska	15	1.0	ml	
10	tx2025mjexf	-104.288	31.626	7.8174	M 1.7 - 58 ...	58 km NW of Toyah, T...	44	1.7	ml	
11	cd1003263	-116.2366667	33.2898333	9.28	M 0.5 - 13 ...	13 km ENE of Borreg...	4	0.53	ml	
12	tx2025mjex...	-104.297	31.63	6.9202	M 3.0 - 59 ...	59 km NW of Toyah, T...	138	3.0	ml	
13	nn00899421	-119.9821	39.0796	12.3	M 0.8 - 3 k...	3 km WSW of Glenbr...	10	0.8	ml	

Selected Cell 6 of 8 cells

Session ready AutoSave: On

90°F Partly sunny 4:22 PM 6/26/2025

02 Worldwide Earthquake Events | Apps | Microsoft 365 Copilot | History | delta lake in fabric - Google Search | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/2a1bd051-03c0-474b-9a5f-2af9041ad1ae?experience=fabric-developer

02 Worldwide Earthquake Events API - Silver Layer Processing | Saved | Q Search Trial: 59 days left

Home Edit AI tools Run View PySpark (Python) Environment Workspace default Data Wrangler Copilot

Explorer

- Data items Resources
- + Add data items
- Items
 - Earthquakes_lakehouse
 - Tables
 - Files

1 # Convert 'time' and 'updated' columns from milliseconds to timestamp format for clearer datetime representation.

[23] 2 from pyspark.sql.functions import col, from_unixtime
3 from pyspark.sql.types import TimestampType
4 df = df.\n5 withColumn('time', col('time')/1000).\n6 withColumn('updated', col('updated')/1000).\n7 withColumn('time', col('time').cast(TimestampType())).\n8 withColumn('updated', col('updated').cast(TimestampType()))

✓ <1 sec - Command executed in 297 ms by lakshmi pujitha Gorantla on 4:25:29 PM, 6/26/25

> Spark jobs (1 of 1 succeeded) Resources Log

Table view + New chart Data Wrangler 11 columns, 1000 rows Filter by keyword

	longitude	latitude	elevation	ABC title	ABC place_description	12L sig	12 mag	ABC magType	time	updated
434997...	38.7851676...	1.5199999809...	M 0.5 - 1 k...	1 km ENE of The Geys...	3	0.47	md	2025-06-2...	2025-06-24 ...	
766666...	18.6871666...	8.53	M 3.0 - 26 ...	26 km N of Garrochala...	141	3.03	md	2025-06-2...	2025-06-24 ...	
766666...	19.108	41.16	M 3.4 - 50 ...	58 km N of Punta Ca...	175	3.37	md	2025-06-2...	2025-06-25 ...	
773333...	35.6561667...	4.56	M 1.4 - 1.4...	1.4 km ESW of Sanl...	39	1.37	ml	2025-06-2...	2025-06-25 ...	

Selected Cell 7 of 8 cells

Session ready AutoSave: On

90°F Partly sunny 4:27 PM 6/26/2025

Fabric Apps | Microsoft 365 Copilot History delta lake in fabric - Google Search

Earthquakes_lakehouse

Home Reporting Help

New SQL query Query activity Model layouts Download SQL database project Open in Copilot

This warehouse has a default Power BI semantic model. To automatically add objects, go to warehouse settings. To manually add objects, use Manage default semantic model. Learn more

Explorer

+ Warehouses

Earthquakes_lakehouse

- Schemas
- dbo
- Tables
- Views
- Functions
- Stored Procs
- INFORMATION...
- queryinsights
- sys

Security

Overview

Copy SQL connection string Succeeded (10 sec 418 ms)

Showing 1000 rows

#	ABC id	12F longitude	12F latitude	12F elevation	ABC title	ABC place_des...	123 sig	12F mag	ABC magType	time	updated
1	uw62126362	-123.6963348...	46.848331451...	0.7599999904...	M 2.0 - 13 km ...	13 km SSE of ...	61	1.9978973865...	ml	2025-06-24 2...	2025-06-25 0...
2	o41003311	-116.7216667	33.5311667	5.45	M 0.8 - 5 km ...	5 km WSW of ...	9	0.75	ml	2025-06-24 2...	2025-06-25 1...
3	us7000q8kv	80.3994	-41.4919	10	M 4.9 - Mid-In...	Mid-Indian R...	369	4.9	mb	2025-06-24 2...	2025-06-25 0...
4	us7000q8kt	94.0011	9.5621	10	M 4.8 - 27 km ...	270 km SSE of ...	354	4.8	mb	2025-06-24 2...	2025-06-25 0...
5	pr71487078	-68.23433333...	18.766666666...	54.82	M 3.3 - 27 km ...	27 km NE of P...	165	3.27	md	2025-06-24 2...	2025-06-25 0...
6	tx2025mjfdq	-104.278	31.639	7.4841	M 2.3 - 58 km ...	58 km NW of ...	81	2.3	ml	2025-06-24 2...	2025-06-26 1...
7	pr71487073	-66.837	17.965333333...	15.99	M 1.9 - 3 km S...	3 km SSW of ...	57	1.92	md	2025-06-24 2...	2025-06-24 2...
8	ak02581sxjje	-143.7293	61.7467	58.1	M 1.1 - 45 km ...	45 km NE of C...	19	1.1	ml	2025-06-24 2...	2025-06-24 2...
9	ak02581swcgl	-147.4987	64.9847	0	M 1.0 - 6 km E...	6 km ENE of F...	15	1	ml	2025-06-24 2...	2025-06-24 2...
10	tx2025mjexf	-104.288	31.626	7.8174	M 1.7 - 58 km ...	58 km NW of ...	44	1.7	ml	2025-06-24 2...	2025-06-25 1...
11	o41003263	-116.2366667	33.2898333	9.28	M 0.5 - 13 km ...	13 km ENE of ...	4	0.53	ml	2025-06-24 2...	2025-06-25 1...
12	tx2025mjexuok	-104.297	31.63	6.9202	M 3.0 - 59 km ...	59 km NW of ...	138	3	ml	2025-06-24 2...	2025-06-25 0...
13	nn0089421	-119.9821	39.0796	12.3	M 0.8 - 3 km ...	3 km WSW of ...	10	0.8	ml	2025-06-24 2...	2025-06-25 0...
14	nc75200126	-122.7683334...	38.826000213...	2.3099999427...	M 1.0 - 4 km ...	4 km WNW of ...	16	1.01	md	2025-06-24 2...	2025-06-25 0...
15	tx2025mjexqt	-104.286	31.624	7.1765	M 2.2 - 58 km ...	58 km NW of ...	74	2.2	ml	2025-06-24 2...	2025-06-25 0...
16	us7000q8kc	130.2021	-6.393	119.546	M 4.8 - 294 km ...	294 km WSW ...	354	4.8	mb	2025-06-24 2...	2025-06-25 0...
17	nc75200111	-122.7434997...	38.785167694...	1.5199999809...	M 0.5 - 1 km E...	1 km ENE of T...	3	0.47	md	2025-06-24 2...	2025-06-24 2...

Showing 1000 rows

Search

Columns: 11 Rows: 1000

4:30 PM 6/26/2025

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Earthquakes_lakehouse

Home Reporting Help

New SQL query Query activity Model layouts Download SQL database project Open in Copilot

This warehouse has a default Power BI semantic model. To automatically add objects, go to warehouse settings. To manually add objects, use Manage default semantic model. Learn more

Explorer

+ Warehouses

Earthquakes_lakehouse

- Schemas
- dbo
- Tables
- Views
- Functions
- Stored Procs
- INFORMATION...
- queryinsights
- sys

Security

Overview

Copy SQL connection string Succeeded (7 sec 529 ms)

SQL query 1

```
Run Save as view Explain query Fix query errors
1 select * from earthquake_events_silver
```

Messages Results

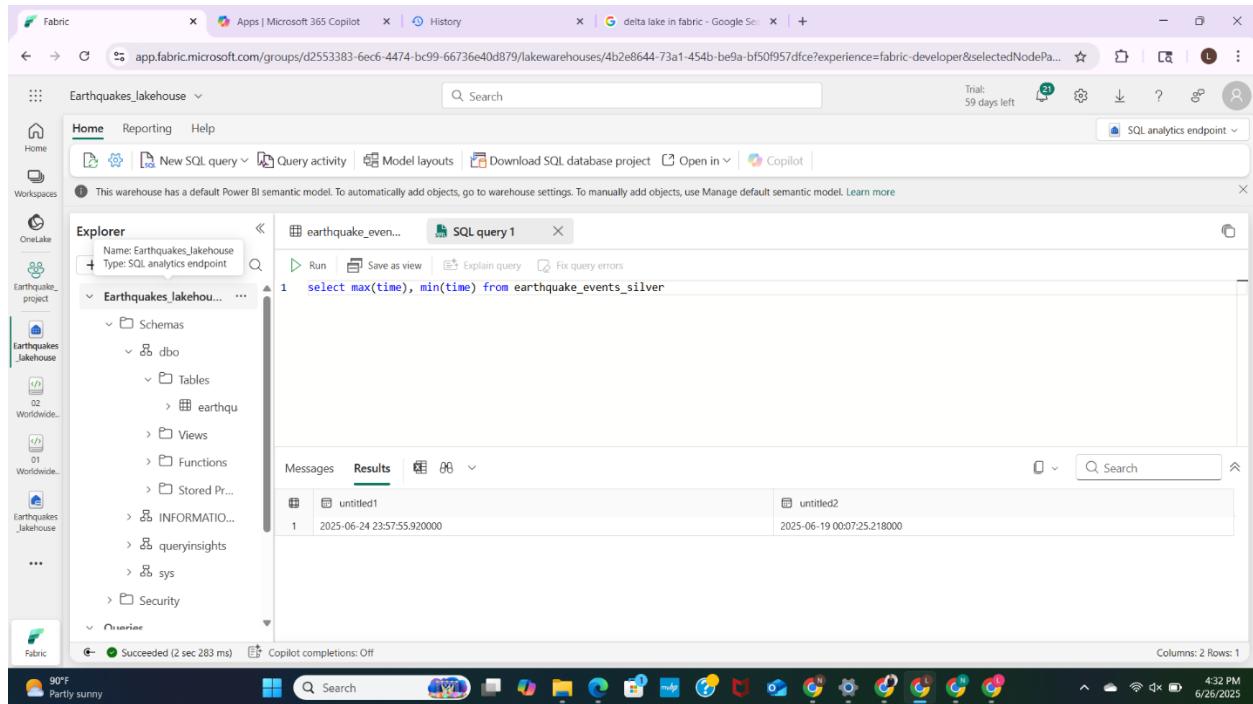
#	ABC id	12F longitude	12F latitude	12F elevation	ABC title	ABC place_des...	123 sig	12F mag	ABC magType	time	updated
1	uw62126362	-123.6963348...	46.848331451...	0.7599999904...	M 2.0 - 13 km ...	13 km SSE of ...	61	1.9978973865...	ml	2025-06-24 2...	2025-06-25 0...
2	o41003311	-116.7216667	33.5311667	5.45	M 0.8 - 5 km ...	5 km WSW of ...	9	0.75	ml	2025-06-24 2...	2025-06-25 1...
3	us7000q8kv	80.3994	-41.4919	10	M 4.9 - Mid-In...	Mid-Indian R...	369	4.9	mb	2025-06-24 2...	2025-06-25 0...
4	us7000q8kt	94.0011	9.5621	10	M 4.8 - 27 km ...	270 km SSE of ...	354	4.8	mb	2025-06-24 2...	2025-06-25 0...
5	pr71487078	-68.23433333...	18.766666666...	54.82	M 3.3 - 27 km ...	27 km NE of P...	165	3.27	md	2025-06-24 2...	2025-06-25 0...
6	tx2025mjfdq	-104.278	31.639	7.4841	M 2.3 - 58 km ...	58 km NW of ...	81	2.3	ml	2025-06-24 2...	2025-06-26 1...

Messages Results

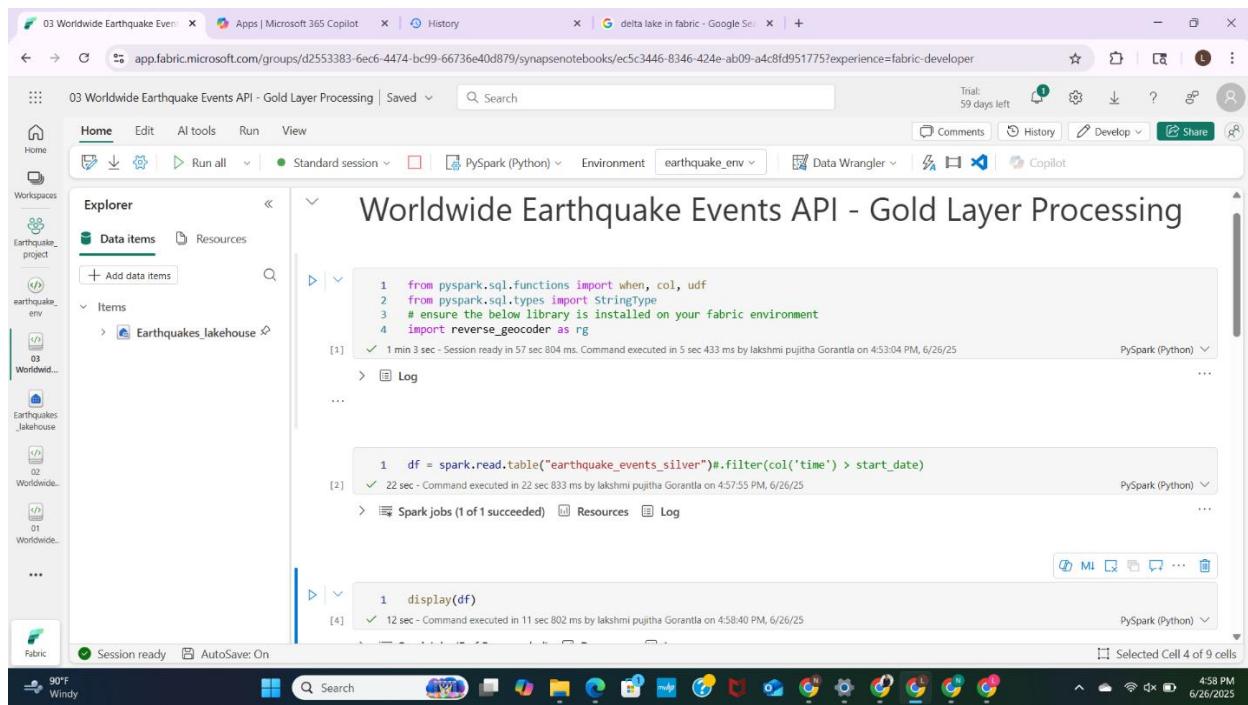
Search

Columns: 11 Rows: 1882

4:31 PM 6/26/2025



4. Coding the Gold Layer Processing Notebook :-



03 Worldwide Earthquake Events API - Gold Layer Processing | Saved | Search

Home Edit AI tools Run View

PySpark (Python) Environment earthquake_env Data Wrangler Copilot

Explorer Data items Resources

+ Add data items

Items > Earthquakes_lakehouse

df = spark.read.table("earthquake_events_silver").filter(col('time') > start_date)

[2] ✓ 22 sec - Command executed in 22 sec 833 ms by lakshmi pujitha Gorantla on 4:57:55 PM, 6/26/25

> Spark jobs (1 of 1 succeeded) Resources Log

display(df)

[4] ✓ 12 sec - Command executed in 11 sec 802 ms by lakshmi pujitha Gorantla on 4:58:40 PM, 6/26/25

> Spark jobs (5 of 5 succeeded) Resources Log

Table view Table + New chart Download Filter by keyword

longitude

id	longitude	latitude	elevation	title	place_description	sig
1	-123.6963348...	46.848314...	0.759999904...	M 2.0 - 13 ...	13 km SSE of Cosmo...	61
2	-116.7216667	33.5311667	5.45	M 0.8 - 5 ...	5 km WSW of Anza, CA	9
3	80.3994	-41.4919	10.0	M 4.9 - M...	Mid-Indian Ridge	369
4	us7000g8kt	94.0011	9.5621	M 4.8 - 270...	270 km SSE of Port Bl...	354
5	pr71487078	-68.2343333...	18.7666666...	M 3.3 - 27 ...	27 km NE of Punta Ca...	165

Selected Cell 4 of 9 cells

Session ready AutoSave: On

90°F Windy

Search

4:59 PM 6/26/2025

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Home Edit AI tools Run View

PySpark (Python) Environment earthquake_env Data Wrangler Copilot

Explorer Data items Resources

+ Add data items

Items > Earthquakes_lakehouse

df = spark.read.table("earthquake_events_silver").filter(col('time') > start_date)

[2] ✓ 22 sec - Command executed in 22 sec 833 ms by lakshmi pujitha Gorantla on 4:57:55 PM, 6/26/25

> Spark jobs (1 of 1 succeeded) Resources Log

coordinates=(11.0588, -86.9377)

[6] ✓ 1 sec - Command executed in 1 sec 552 ms by lakshmi pujitha Gorantla on 5:01:07 PM, 6/26/25

> Loading formatted geocoded file... 'N2'

+ Code + Markdown

display(df)

[4] ✓ 12 sec - Command executed in 11 sec 802 ms by lakshmi pujitha Gorantla on 4:58:40 PM, 6/26/25

> Spark jobs (5 of 5 succeeded) Resources Log

Table view Table + New chart Download Filter by keyword

longitude

id	longitude	latitude	elevation	title	place_description	sig
1	-123.6963348...	46.848314...	0.759999904...	M 2.0 - 13 ...	13 km SSE of Cosmo...	61
2	-116.7216667	33.5311667	5.45	M 0.8 - 5 ...	5 km WSW of Anza, CA	9
3	80.3994	-41.4919	10.0	M 4.9 - M...	Mid-Indian Ridge	369
4	us7000g8kt	94.0011	9.5621	M 4.8 - 270...	270 km SSE of Port Bl...	354
5	pr71487078	-68.2343333...	18.7666666...	M 3.3 - 27 ...	27 km NE of Punta Ca...	165

Selected Cell 4 of 10 cells

Session ready AutoSave: On

90°F Windy

Search

5:01 PM 6/26/2025

03 Worldwide Earthquake Events | Apps | Microsoft 365 Copilot | History | delta lake in fabric - Google Search | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/ec5c3446-8346-424e-ab09-a4c8fd951775?experience=fabric-developer

03 Worldwide Earthquake Events API - Gold Layer Processing | Saved | Search

Home Edit AI tools Run View PySpark (Python) Environment earthquake_env Data Wrangler Copilot

Explorer

Data items Resources

+ Add data items

Items

> Earthquakes_lakehouse

```

1 def get_country_code(lat, lon):
2     """
3         Retrieve the country code for a given latitude and longitude.
4
5     Parameters:
6         lat (float or str): Latitude of the location.
7         lon (float or str): Longitude of the location.
8
9     Returns:
10        str: Country code of the location, retrieved using the reverse geocoding API.
11
12    Example:
13    >>> get_country_details(48.8588443, 2.2943506)
14    'FR'
15
16    coordinates = (float(lat), float(lon))
17    return rg.search(coordinates)[0].get('cc')

```

[?] <1 sec - Command executed in 280 ms by lakshmi pujitha Gorantla on 5:01:55 PM, 6/26/25

PySpark (Python)

```

1 # registering the udfs so they can be used on spark dataframes
2 get_country_code_udf = udf(get_country_code, StringType())

```

[8] <1 sec - Command executed in 290 ms by lakshmi pujitha Gorantla on 5:02:11 PM, 6/26/25

PySpark (Python)

Fabric Session ready AutoSave: On

Selected Cell 5 of 8 cells

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Search

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03 Worldwide Earthquake Events API - Gold Layer Processing | Saved | Search

Home Edit AI tools Run View PySpark (Python) Environment earthquake_env Data Wrangler Copilot

Explorer

Data items Resources

+ Add data items

Items

> Earthquakes_lakehouse

```

1 # adding country_code and city attributes
2 df_with_location = \
3     df.\
4         withColumn("country_code", get_country_code_udf(col("latitude"), col("longitude")))

```

[9] <1 sec - Command executed in 293 ms by lakshmi pujitha Gorantla on 5:02:35 PM, 6/26/25

PySpark (Python)

```

1 display(df_with_location)

```

[10] 1 min 22 sec - Command executed in 1 min 21 sec 972 ms by lakshmi pujitha Gorantla on 5:04:31 PM, 6/26/25

PySpark (Python)

Spark jobs (1 of 1 succeeded) Resources Log

Table view New chart

Table view Download Filter by keyword

US

place_description	sig	mag	magType	time	updated	country_code
13 km SSE of Cosmo...	61	1.99789738...	ml	2025-06-2...	2025-06-25 ...	US
5 km WSW of Anza, CA	9	0.75	ml	2025-06-2...	2025-06-25 ...	US
Mid-Indian Ridge	369	4.9	mb	2025-06-2...	2025-06-25 ...	TF
270 km SSE of Port Bl...	354	4.8	mb	2025-06-2...	2025-06-25 ...	IN
27 km NE of Punta Ca...	165	3.27	md	2025-06-2...	2025-06-25 ...	DO

12 columns, 1000 rows

Fabric Session ready AutoSave: On

Selected Cell 7 of 9 cells

90°F Windy

Search

03 Worldwide Earthquake Events | Apps | Microsoft 365 Copilot | History | delta lake in fabric - Google Search | +

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/synapsenotebooks/ec5c3446-8346-424e-ab09-a4c8fd951775?experience=fabric-developer

03 Worldwide Earthquake Events API - Gold Layer Processing | Saved | Search

Home Edit AI tools Run View PySpark (Python) Environment earthquake_env Data Wrangler Copilot

Explorer

- Data items
- Resources
- + Add data items
- Items
 - > Earthquakes_lakehouse

```

1 # adding significance classification
2 df_with_location_sig_class = \
3     df_with_location.withColumn('sig_class',
4         when(col("sig") < 100, "Low"),
5         when((col("sig") >= 100) & (col("sig") < 500), "Moderate"),
6         otherwise("High")
7     )
8
  
```

[11] ✓ <1 sec - Command executed in 324 ms by lakshmi pujitha Gorantla on 5:04:47 PM, 6/26/25

PySpark (Python)

1 display(df_with_location_sig_class)

[12] ✓ 1 min 15 sec - Command executed in 1 min 15 sec 554 ms by lakshmi pujitha Gorantla on 5:08:44 PM, 6/26/25

PySpark (Python)

Spark jobs (1 of 1 succeeded) Resources Log

Table view

Elevation	ABC title	ABC place_description	12L sig	12 mag	ABC magType	time	updated	ABC country_code	ABC sig_class
99999904...	M 2.0 - 13 ...	13 km SSE of Cosmo...	61	1.99789738...	ml	2025-06-2...	2025-06-25 ...	US	Low
M 0.8 - 5 ...	5 km WSW of Anza, CA	9	0.75	ml	2025-06-2...	2025-06-25 ...	US	Low	
M 4.9 - Mi...	Mid-Indian Ridge	369	4.9	mb	2025-06-2...	2025-06-25 ...	TF	Moderate	
M 4.8 - 270 ...	270 km SSE of Port Bl...	354	4.8	mb	2025-06-2...	2025-06-25 ...	IN	Moderate	
M 3.3 - 27 ...	77 km NE of Dhaka, Ba...	165	3.27	mb	2025-06-2...	2025-06-25 ...	BD	Moderate	

Selected Cell 8 of 9 cells

88°F Partly sunny 5:09 PM 6/26/25

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03 Worldwide Earthquake Events API - Gold Layer Processing | Saved | Search

Home Edit AI tools Run View PySpark (Python) Environment earthquake_env Data Wrangler Copilot

Processing

Explorer

- Data items
- Resources
- + Add data items
- Items
 - > Earthquakes_lakehouse
 - Tables
 - > earthquake_events_gold
 - > earthquake_events_silver
 - Files

```

1 from pyspark.sql.functions import when, col, udf
2 from pyspark.sql.types import StringType
3 # ensure the below library is installed on your fabric environment
4 import reverse_geocoder as rg
  
```

[1] ✓ 1 min 3 sec - Session ready in 57 sec 804 ms. Command executed in 5 sec 433 ms by lakshmi pujitha Gorantla on 4:53:04 PM, 6/26/25

PySpark (Python)

> Log

```

1 df = spark.read.table("earthquake_events_silver").filter(col('time') > start_date)
  
```

[2] ✓ 22 sec - Command executed in 22 sec 833 ms by lakshmi pujitha Gorantla on 4:57:55 PM, 6/26/25

PySpark (Python)

Spark jobs (1 of 1 succeeded) Resources Log

```

1 def get_country_code(lat, lon):
2     """
3     Retrieve the country code for a given latitude and longitude.
4
  
```

Selected Cell 3 of 8 cells

88°F Partly sunny 5:15 PM 6/26/25

5. Updating the Default Semantic Model and Creating the Power BI Report :-

6. Using a Data Factory Pipeline to Orchestrate the Data Processing :-

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app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/list?experience=fabric-developer

Fabric Earthquake_project

Earthquake_project + New item New folder Import Migrate

Create deployment pipeline Create app Manage access Workspace settings

Search Filter by keyword Filter Included in app

Name Type Task Owner Refreshed Next refresh Endorsement Sensitivity Included in app

New pipeline

Name: Earthquake pipeline

Creating Cancel

76°F Mostly cloudy

Earthquake pipeline - Fabric Microsoft Fabric Support and ... Apps | Microsoft 365 Copilot History delta lake in fabric - Google Search

app.fabric.microsoft.com/groups/d2553383-6ec6-4474-bc99-66736e40d879/pipelines/54806899-5864-45ea-a6b8-985399ed877c?experience=fabric-developer&capacityObjectId=E1E...

Earthquake pipeline

Home Activities Run View

Validate Run Schedule Add trigger View run history

Notebook Bronze notebook Set variable (x) Set variable1

Parameters Variables Settings Output Library variables (preview)

Pipeline run ID: 77a9e3f3-02a1-445e-97b7-8c8ed2fa740b Pipeline status: Succeeded

Output Copy to clipboard

{ "name": "start_date", "value": "2025-06-27T02:48:02.2309349Z" }

Filter by keyword Showing 1 - 2 items

Activity name	Activity status	Run start	Duration
Set variable1	Succeeded	6/26/2025, 9:48:01 PM	Less than 1s
Bronze notebook	Inactive	6/26/2025, 9:48:02 PM	Less than 1s

76°F Mostly cloudy

Screenshot of the Microsoft Fabric interface showing the "Earthquake pipeline - Fabric" page.

The pipeline consists of three activities:

```
graph LR; A[Notebook: Bronze notebook] --> B[Notebook: silver notebook]; B --> C[Notebook: Gold notebook]
```

Pipeline run ID: 7b247118-a354-4713-8fff-cc64fc2466b8

Pipeline status: In progress

Recent runs for Earthquake pipeline:

Activity name	Start time	Submitted by	Status
Earthquake pipeline	06/26/2025, 10:03 PM	lakshmi pujitha Gorantla	Succeeded
Earthquake pipeline	06/26/2025, 9:52 PM	lakshmi pujitha Gorantla	Succeeded
Earthquake pipeline	06/26/2025, 9:47 PM	lakshmi pujitha Gorantla	Succeeded

Output:

Activity name	Activity status	Run start	Duration	Input	Output
Gold notebook	Succeeded	6/26/2025, 10:05:05 PM	2m 46s	[Download]	[Download]
Silver notebook	Succeeded	6/26/2025, 10:04:08 PM	56s	[Download]	[Download]
Bronze notebook	Succeeded	6/26/2025, 10:03:46 PM	21s	[Download]	[Download]

Fabric Monitor

View and track the status of the activities across all the workspaces for which you have permissions within Microsoft Fabric.

Historical runs of Earthquake pipeline

To apply filters, select the values from the Filter dropdown menu.

Activity name	Status	Item type	Start time	Submitted by	Location
Earthquake pipeline	Succeeded	Data pipeline	06/26/2025, 9:47 PM	lakshmi pujitha Gorantla	Earthquake_project
Earthquake pipeline	Succeeded	Data pipeline	06/26/2025, 9:52 PM	lakshmi pujitha Gorantla	Earthquake_project
Earthquake pipeline	Succeeded	Data pipeline	06/26/2025, 10:03 PM	lakshmi pujitha Gorantla	Earthquake_project

Worldwide_Earthquake Events

Average of mag, Max of significance and no of events by country and classification

classification: High (Blue), Low (Green), Moderate (Yellow)

Significance(MAX) by country

Country	Significance (%)
OK (1.74%)	OK (1.66%)
OK (1.37%)	OK (1.58%)
OK (2.25%)	OK (1.44%)
OK (2.03%)	OK (1.44%)
OK (2.07%)	OK (1.44%)
OK (2.14%)	OK (1.44%)
OK (2.22%)	OK (1.44%)
OK (2.58%)	OK (1.44%)
OK (2.4%)	OK (1.44%)

Average of mag by longitude and latitude

Worldwide events

Total earthquakes: 2156, Significance (Max): 1100

Average of mag

Country	Average of mag
GU	5.5
PG	5.5
GS	5.5
S8	5.5
BR	5.5
SH	5.5
TF	5.5
EC	5.5
CY	5.5
PH	5.5
AR	5.5
NL	5.5
IN	5.5
MP	5.5
VU	5.5
TO	5.5
WF	5.5
BO	5.5
ID	5.5
NC	5.5
PE	5.5
IR	5.5
JP	5.5
GR	5.5
TW	5.5
AF	5.5
CO	5.5
FJ	5.5
GL	5.5
GT	5.5
SV	5.5
TL	5.5
TT	5.5
CL	5.5
NZ	5.5
CR	5.5
PT	5.5
TR	5.5
CN	5.5
AL	5.5
PL	5.5
TJ	5.5
DO	5.5
VG	5.5
PR	5.5
RU	5.5
MX	5.5
CA	5.5
US	5.5

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Power BI Earthquake_project

Earthquake_project

+ New item New folder Import Migrate

Create deployment pipeline Create app Manage access Workspace settings

Filter by keyword Filter Reset

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity
01 Worldwide Earthquake Events API - Bronze Layer	Notebook	—	lakshmi pujitha Gorantla	—	—	—	—
02 Worldwide Earthquake Events API - Silver Layer	Notebook	—	lakshmi pujitha Gorantla	—	—	—	—
03 Worldwide Earthquake Events API - Gold Layer	Notebook	—	lakshmi pujitha Gorantla	—	—	—	—
Earthquake pipeline	Data pipeline	—	lakshmi pujitha Gorantla	—	—	—	—
earthquake_env	Environment	—	lakshmi pujitha Gorantla	—	—	—	—
Earthquakes_lakehouse	Lakehouse	—	lakshmi pujitha Gorantla	—	—	—	—
Earthquakes_lakehouse	Semantic model	—	Earthquake_project	6/26/2025, 5:20...	N/A	—	—
Earthquakes_lakehouse	SQL analytics	—	lakshmi pujitha Gorantla	—	—	—	—
Worldwide_Earthquake_Events	Report	—	Earthquake_project	6/26/2025, 5:20...	—	—	—

Power BI 75° Mostly cloudy

Search

10:15 PM 6/26/2025